



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of: Viktor M. Keller, et al  
Serial Number: 10/716,683  
Filed: 11/19/2003  
Examiner: Not Yet Assigned  
Art Unit: 3711  
Title: Multi-Layer Golf Ball with Reaction Injection Molded Polyurethane Component

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA  
22313-1450

SIR:

- ☒ 1 Pursuant to 37 CFR 1.97(b)  
[within 3 months of filing or prior to 1st Office Action]
- ☐ 2 Certification Pursuant to 37 CFR 1.97(c)  
[before Final Office Action or Allowance]
- ☐ 3 Fee Payment Pursuant to 37 CFR 1.97(c)  
[before Final Office Action or Allowance]
- ☐ 4 Certification & Fee Payment Pursuant to 37 CFR 1.97(d)  
[after mailing of Final Office Action or before issue fee payment]

The following are submitted in the above-identified application in compliance with 37 CFR 1.97 & 1.98:

- ☒ 5 A list of documents on form PTO-1449. Copies of each identified document are on file in a parent application.

This paper is submitted in accordance with:

- ☒ 6 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]

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CERTIFICATE OF MAILING (37 C.F.R. 1.8a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on this 25<sup>th</sup> day of March, 2004.

Leslie A. Ignatidis

☐ 7 37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier];

☐ a. The required certification made in item 9 below;

or

☐ b. The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.

☐ 8 37 CFR §1.97(d): [after mailing of Final Office Action and before issue fee payment];  
and

☐ a. The required Certification is stated in item 9 below and

☐ b. The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.

☐ 9 Certification

☐ a. Each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; or

☐ b. No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing this document after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing of this Statement.

☒ 10 Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to **Deposit Account No.17-0150**.

Respectfully submitted,

Viktor M. Keller, et al

Date: March 25, 2004  
(413) 322-2937  
Customer No. 24492

By Michelle Bugbee  
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Sheet 1 of 10

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Attorney Docket Number	P-4628-2-D1-1-C1

**U. S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 2,741,480	04-10-1956	Smith	
		US- 2,973,800	03-07-1961	Muccino	
		US- 3,053,539	09-11-1962	Piechowski	
		US- 3,264,272	08-02-1966	Rees	
		US- 3,313,545	04-11-1967	Bartsch	
		US- 3,373,123	03-12-1968	Brice	
		US- 3,384,612	05-21-1968	Brandt, et al	
		US- 3,395,109	07-30-1968	Molitor, et al	
		US- 3,458,205	07-29-1969	Smith, et al	
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		US- 3,534,965	10-20-1970	Harrison, et al	
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		US- 3,883,145	05-13-1975	Cox, et al	
		US- 3,979,126	09-07-1976	Dusbiber	
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		US- 4,123,061	10-31-1978	Dusbiber	
		US- 4,190,711	02-26-1980	Zdrahala, et al	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		JP 1,771,941	08-06-1992			
		JP 1,795,357	01-19-1993			
		GB 494,031	10-19-1938	Twiss, et al		
		GB 2,245,580	01-08-1992	Hwang, et al		
		GB 2,248,067	03-25-1992	Viollaz		
		GB 2,264,302	08-25-1993	Pocklington		

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		US- 4,218,543	08-19-1980	Weber, et al	
		US- 4,248,432	02-03-1981	Hewitt, et al	
		US- 4,272,079	06-09-1981	Nakade, et al	
		US- 4,274,637	06-23-1981	Molitor	
		US- 4,337,946	07-06-1982	Saito, et al	
		US- 4,431,193	02-14-1984	Nesbitt	
		US- 4,442,282	04-10-1984	Kolycheck	
		US- 4,570,937	02-18-1986	Yamada	
		US- 4,582,887	04-15-1986	Dominguez, et al	
		US- 4,590,219	05-20-1986	Nissen, et al	
		US- 4,607,090	08-19-1986	Dominguez	
		US- 4,650,193	03-17-1987	Molitor, et al	
		US- 4,674,751	06-23-1987	Molitor, et al	
		US- 4,679,795	07-14-1987	Melvin, et al	
		US- 4,683,257	07-28-1987	Kakiuchi, et al	
		US- 4,688,801	08-25-1987	Reiter	
		US- 4,690,981	09-01-1987	Statz	
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		US- 4,714,253	12-22-1987	Nakahara, et al	

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		GB 2,291,811	02-07-1996	Kakiuchi, et al		
		GB 2,291,812	02-07-1996	Lee		
		CA 2,137,841	06-30-1995	Endo		
		EP 0,589,647	03-30-1994	Endo, et al		
		EP 0,630,665	12-28-1994	Proudfit		
		EP 0,637,459	02-08-1995	Yamagishi, et al		

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,762,322	08-09-1988	Molitor, et al	
		US- 4,798,386	01-17-1989	Berard	
		US- 4,848,770	07-18-1989	Shama	
		US- 4,852,884	08-01-1989	Sullivan	
		US- 4,858,923	08-22-1989	Gobush, et al	
		US- 4,858,924	08-22-1989	Saito, et al	
		US- 4,878,674	11-07-1989	Newcomb, et al	:
		US- 4,884,814	12-05-1989	Sullivan	
		US- 4,911,451	03-27-1990	Sullivan, et al	
		US- 4,919,434	04-24-1990	Saito	
		US- 4,957,297	09-18-1990	Newcomb, et al	
		US- 4,979,746	12-25-1990	Gentiluomo	
		US- 4,984,804	01-15-1991	Yamada, et al	
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		US- 5,002,281	03-26-1991	Nakahara, et al	
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		US- 5,019,319	05-28-1991	Nakamura, et al	
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		US- 5,045,591	09-03-1991	Meyer, et al	
		US- 5,048,838	09-17-1991	Chikaraishi, et al	
		US- 5,068,151	11-26-1991	Nakamura	
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		US- 5,096,201	03-17-1992	Egashara, et al	
		US- 5,098,105	03-24-1992	Sullivan	
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		US- 5,150,906	09-29-1992	Molitor, et al	
		US- 5,156,405	10-20-1992	Kitaoh, et al	
		US- 5,184,828	02-09-1993	Kim, et al	
		US- 5,187,013	02-16-1993	Sullivan	
		US- 5,197,740	03-30-1993	Pocklington, et al	
		US- 5,219,973	06-15-1993	Slack, et al	
		US- 5,222,739	06-29-1993	Horiuchi, et al	
		US- 5,244,969	09-14-1993	Yamada	
		US- 5,253,871	10-19-1993	Viollaz	
		US- 5,273,286	12-28-1993	Sun	

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		US- 5,387,750	02-07-1995	Chiang	
		US- 5,403,010	04-04-1995	Yabuki, et al	
		US- 5,439,227	08-08-1995	Egashira, et al	
		US- 5,480,155	01-02-1996	Molitor, et al	

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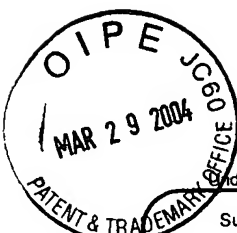
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Sheet 6 of 10

## Complete if Known

Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,482,285	01-09-1996	Yabuki, et al	
		US- 5,484,870	01-16-1996	Wu	
		US- 5,490,673	02-13-1996	Hiraoka	
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		US- 5,492,972	02-20-1996	Stefani	
		US- 5,553,852	09-10-1996	Higuchi, et al	
		US- 5,586,950	12-24-1996	Endo	
		US- 5,628,699	05-13-1997	Maruko, et al	
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		US- 5,688,191	11-18-1997	Cavallaro, et al	
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		US- 5,733,207	03-31-1998	Sullivan, et al	
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		US- 5,739,253	04-14-1998	Nodelman, et al	
		US- 5,750,580	05-12-1998	Mayer, et al	

## FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

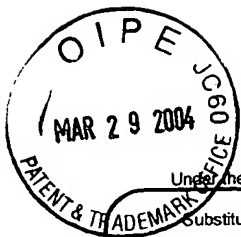
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	Application Number	10/716,683
	Filing Date	11/19/2003
	First Named Inventor	Viktor M. Keller
	Art Unit	3711
	Examiner Name	Not Yet Assigned
Sheet 7 of 10	Attorney Docket Number	P-4628-2-D1-1-C1

U. S. PATENT DOCUMENTS					
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		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,759,676	06-02-1998	Cavallaro, et al	
		US- 5,779,561	07-14-1998	Sullivan, et al	
		US- 5,779,562	07-14-1998	Melvin, et al	
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		US- 5,783,293	07-21-1998	Lammi	
		US- 5,792,008	08-11-1998	Kakiuchi, et al	
		US- 5,797,808	08-25-1998	Hayashi, et al	
		US- 5,800,284	09-01-1998	Sullivan, et al	
		US- 5,803,831	09-08-1998	Sullivan, et al	
		US- 5,810,678	09-22-1998	Cavallaro, et al	
		US- 5,813,923	09-29-1998	Cavallaro, et al	
		US- 5,816,937	10-06-1998	Shimosaka, et al	
		US- 5,820,488	10-13-1998	Sullivan, et al	
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		US- 5,833,554	11-10-1998	Sullivan, et al	

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STATEMENT BY APPLICANT**

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Sheet 8

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Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,836,833	11-17-1998	Shimosaka, et al	
		US- 5,849,168	12-15-1998	Lutz	
		US- 5,856,388	01-05-1999	Harris, et al	
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		US- 5,919,100	07-06-1999	Boehm, et al	
		US- 5,919,862	07-06-1999	Rajagopalan	
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		US- 5,929,189	07-27-1999	Ichikawa, et al	
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		US- 5,947,842	09-07-1999	Cavallaro, et al	
		US- 5,947,843	09-07-1999	Calabria, et al	

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Application Number	10/716,683
Filing Date	11/19/2003
First Named Inventor	Viktor M. Keller
Art Unit	3711
Examiner Name	Not Yet Assigned
Attorney Docket Number	P-4628-2-D1-1-C1

Sheet	9	of	10
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	<b>Application Number</b>		10/716,683
	<b>Filing Date</b>		11/19/2003
	<b>First Named Inventor</b>		Viktor M. Keller
	<b>Art Unit</b>		3711
	<b>Examiner Name</b>		Not Yet Assigned
	<b>Attorney Docket Number</b>		P-4628-2-D1-1-C1
<b>Sheet</b>	10	<b>of</b>	10

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Product Announcement, "New Polyurea System Offering Rapid Mold Times and Excellent Thermal Stability for Automotive Fascias is Introduced by Mobay", PRNewswire, March 1, 1998	
		Cytec Industries, Inc., "TMXDI (META) Aliphatic Isocyanates", brochure, pp.2-11, 9/94	
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		Bayer Corporation, "Engineering Polymers RIM and Part Mold Design", brochure, pp.1-85, 5/95	
		Mobay Corporation, "The Chemistry of Polyurethane Coatings", A General Reference Manual, pp. 2-15	
		Bayer Corporation, " Engineering Polymers Properties Guide Thermoplastics and Polyurethanes", brochure, pp. 2-7, 28-29	
		Polyurethane Handbook, "Chemistry-Raw Materials-Processing Applications-Properties", edited by Oertel et al, Hanser/Gardner Publications, Inc., 101,102 (1994)	

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